

Release notes for ENDF/B Development n-019_K_041
evaluation

ENDF
B-VII.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=1931, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=1931, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      258 TO      313
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=1931, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=1931, MF= 1, MT=451
MOD =      4 OUT OF RANGE      0 -      0      RECORD NUMBER      258
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 2, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=1931, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      315
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 3, MT= 1 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=1931, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER      664
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=1931, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      685
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=1931, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      705
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 3, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=1931, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY      RECORD NUMBER      717
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 3, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=1931, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 723

8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 3, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=1931, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 730

9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 3, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=1931, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 737

10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 3, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=1931, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 749

11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 3, MT= 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=1931, MF= 3, MT= 91
SECTION 3/ 91 NOT IN DIRECTORY RECORD NUMBER 761

12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 3, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=1931, MF= 3, MT=102
SECTION 3/102 NOT IN DIRECTORY RECORD NUMBER 772

13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 3, MT=103 (0): Directory (b)

ERROR(S) FOUND IN MAT=1931, MF= 3, MT=103
SECTION 3/103 NOT IN DIRECTORY RECORD NUMBER 786

14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 3, MT=107 (0): Directory (b)

ERROR(S) FOUND IN MAT=1931, MF= 3, MT=107
SECTION 3/107 NOT IN DIRECTORY RECORD NUMBER 794

15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 4, MT= 2 (0): Directory (b)

- | | | |
|--|---------------|-----|
| ERROR(S) FOUND IN MAT=1931, MF= 4, MT= 2 | RECORD NUMBER | 804 |
| SECTION 4/ 2 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 4, MT= 16 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=1931, MF= 4, MT= 16 | RECORD NUMBER | 942 |
| SECTION 4/ 16 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 4, MT= 22 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=1931, MF= 4, MT= 22 | RECORD NUMBER | 945 |
| SECTION 4/ 22 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 4, MT= 28 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=1931, MF= 4, MT= 28 | RECORD NUMBER | 948 |
| SECTION 4/ 28 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 4, MT= 51 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=1931, MF= 4, MT= 51 | RECORD NUMBER | 951 |
| SECTION 4/ 51 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 4, MT= 52 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=1931, MF= 4, MT= 52 | RECORD NUMBER | 975 |
| SECTION 4/ 52 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 4, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=1931, MF= 4, MT= 91 | RECORD NUMBER | 997 |
| SECTION 4/ 91 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 5, MT= 16 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=1931, MF= 5, MT= 16 | RECORD NUMBER | 1033 |
| SECTION 5/ 16 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 5, MT= 22 (0): Directory (b)

- ERROR(S) FOUND IN MAT=1931, MF= 5, MT= 22
SECTION 5/ 22 NOT IN DIRECTORY RECORD NUMBER 1138
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 5, MT= 28 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF= 5, MT= 28
SECTION 5/ 28 NOT IN DIRECTORY RECORD NUMBER 1281
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF= 5, MT= 91 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF= 5, MT= 91
SECTION 5/ 91 NOT IN DIRECTORY RECORD NUMBER 1410
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=12, MT= 16 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=12, MT= 16
SECTION 12/ 16 NOT IN DIRECTORY RECORD NUMBER 1641
27. Missing a gamma spectrum for continuum of gammas
MAT=1931, MF=12, MT= 16 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=1931, MF=12, MT= 16
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=12, MT= 22 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=12, MT= 22
SECTION 12/ 22 NOT IN DIRECTORY RECORD NUMBER 1649
29. Missing a gamma spectrum for continuum of gammas
MAT=1931, MF=12, MT= 22 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=1931, MF=12, MT= 22
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=12, MT= 28 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=12, MT= 28
SECTION 12/ 28 NOT IN DIRECTORY RECORD NUMBER 1657
31. Missing a gamma spectrum for continuum of gammas
MAT=1931, MF=12, MT= 28 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=1931, MF=12, MT= 28
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=12, MT= 51 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=12, MT= 51
SECTION 12/ 51 NOT IN DIRECTORY RECORD NUMBER 1666
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=12, MT= 52 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=12, MT= 52
SECTION 12/ 52 NOT IN DIRECTORY RECORD NUMBER 1670
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=12, MT= 91 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=12, MT= 91
SECTION 12/ 91 NOT IN DIRECTORY RECORD NUMBER 1674
35. Missing a gamma spectrum for continuum of gammas
MAT=1931, MF=12, MT= 91 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=1931, MF=12, MT= 91
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=12, MT=102 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=12, MT=102
SECTION 12/102 NOT IN DIRECTORY RECORD NUMBER 1685
37. Missing a gamma spectrum for continuum of gammas
MAT=1931, MF=12, MT=102 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=1931, MF=12, MT=102
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=12, MT=103 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=12, MT=103
SECTION 12/103 NOT IN DIRECTORY RECORD NUMBER 1699
39. Missing a gamma spectrum for continuum of gammas
MAT=1931, MF=12, MT=103 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=1931, MF=12, MT=103
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=12, MT=107 (0): Directory (b)

- ERROR(S) FOUND IN MAT=1931, MF=12, MT=107
SECTION 12/107 NOT IN DIRECTORY RECORD NUMBER 1710
41. Missing a gamma spectrum for continuum of gammas
MAT=1931, MF=12, MT=107 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=1931, MF=12, MT=107
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
42. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=14, MT= 16 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=14, MT= 16
SECTION 14/ 16 NOT IN DIRECTORY RECORD NUMBER 1722
43. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=14, MT= 22 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=14, MT= 22
SECTION 14/ 22 NOT IN DIRECTORY RECORD NUMBER 1724
44. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=14, MT= 28 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=14, MT= 28
SECTION 14/ 28 NOT IN DIRECTORY RECORD NUMBER 1726
45. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=14, MT= 51 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=14, MT= 51
SECTION 14/ 51 NOT IN DIRECTORY RECORD NUMBER 1728
46. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=14, MT= 52 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=14, MT= 52
SECTION 14/ 52 NOT IN DIRECTORY RECORD NUMBER 1730
47. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=14, MT= 91 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=14, MT= 91
SECTION 14/ 91 NOT IN DIRECTORY RECORD NUMBER 1732
48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=14, MT=102 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=14, MT=102
SECTION 14/102 NOT IN DIRECTORY RECORD NUMBER 1734

49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=14, MT=103 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=14, MT=103
SECTION 14/103 NOT IN DIRECTORY RECORD NUMBER 1736
50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=14, MT=107 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=14, MT=107
SECTION 14/107 NOT IN DIRECTORY RECORD NUMBER 1738
51. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=15, MT= 16 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=15, MT= 16
SECTION 15/ 16 NOT IN DIRECTORY RECORD NUMBER 1741
52. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=15, MT= 22 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=15, MT= 22
SECTION 15/ 22 NOT IN DIRECTORY RECORD NUMBER 1840
53. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=15, MT= 28 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=15, MT= 28
SECTION 15/ 28 NOT IN DIRECTORY RECORD NUMBER 1969
54. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=15, MT= 91 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=15, MT= 91
SECTION 15/ 91 NOT IN DIRECTORY RECORD NUMBER 2104
55. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=15, MT=102 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=15, MT=102
SECTION 15/102 NOT IN DIRECTORY RECORD NUMBER 2434
56. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1931, MF=15, MT=103 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1931, MF=15, MT=103
SECTION 15/103 NOT IN DIRECTORY RECORD NUMBER 3088

57. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=1931, MF=15, MT=107 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=1931, MF=15, MT=107
SECTION 15/107 NOT IN DIRECTORY          RECORD NUMBER    3364
```

58. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=1931, MF=32, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=1931, MF=32, MT=151
SECTION 32/151 NOT IN DIRECTORY          RECORD NUMBER    3639
```

59. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=1931, MF=33, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=1931, MF=33, MT=  2
SECTION 33/  2 NOT IN DIRECTORY          RECORD NUMBER    91284
```

60. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=1931, MF=33, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=1931, MF=33, MT=  4
SECTION 33/  4 NOT IN DIRECTORY          RECORD NUMBER    91323
```

61. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=1931, MF=33, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=1931, MF=33, MT= 16
SECTION 33/ 16 NOT IN DIRECTORY          RECORD NUMBER    91362
```

62. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=1931, MF=33, MT=102 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=1931, MF=33, MT=102
SECTION 33/102 NOT IN DIRECTORY          RECORD NUMBER    91371
```

• **psyche** Warnings:

1. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 0 / AT RESONANCE ENERGY 2.03021E+03 EV. THE GAMMA WIDTH 2.95800E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.66203E+00 (0): Gamma width

```
FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 0
AT RESONANCE ENERGY 2.03021E+03 EV. THE GAMMA WIDTH 2.95800E-01 DEVIATES TOO MUCH FROM THE AV
```

2. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 0 / AT RESONANCE ENERGY 1.33485E+04 EV. THE GAMMA WIDTH 3.68400E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.66203E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 0

AT RESONANCE ENERGY 1.33485E+04 EV. THE GAMMA WIDTH 3.68400E-01 DEVIATES TOO MUCH FROM THE AV

3. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 0 / AT RESONANCE ENERGY 3.31121E+04 EV. THE GAMMA WIDTH 2.69400E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.66203E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 0

AT RESONANCE ENERGY 3.31121E+04 EV. THE GAMMA WIDTH 2.69400E-01 DEVIATES TOO MUCH FROM THE AV

4. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 0 / AT RESONANCE ENERGY 9.14464E+04 EV. THE GAMMA WIDTH 1.09500E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.66203E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 0

AT RESONANCE ENERGY 9.14464E+04 EV. THE GAMMA WIDTH 1.09500E-01 DEVIATES TOO MUCH FROM THE AV

5. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 0 / AT RESONANCE ENERGY 1.00426E+05 EV. THE GAMMA WIDTH 2.68700E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.66203E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 0

AT RESONANCE ENERGY 1.00426E+05 EV. THE GAMMA WIDTH 2.68700E-01 DEVIATES TOO MUCH FROM THE AV

6. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 0 / AT RESONANCE ENERGY 1.03405E+05 EV. THE GAMMA WIDTH 5.10100E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.66203E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 0

AT RESONANCE ENERGY 1.03405E+05 EV. THE GAMMA WIDTH 5.10100E-01 DEVIATES TOO MUCH FROM THE AV

7. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 0 / AT RESONANCE ENERGY 1.28460E+05 EV. THE GAMMA WIDTH 1.00000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.66203E+00 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 0
AT RESONANCE ENERGY 1.28460E+05 EV. THE GAMMA WIDTH 1.00000E-01 DEVIATES TOO MUCH FROM THE AV

8. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 0 / AT RESONANCE ENERGY 1.29784E+05 EV. THE GAMMA WIDTH 6.90000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 1.66203E+00 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 0
AT RESONANCE ENERGY 1.29784E+05 EV. THE GAMMA WIDTH 6.90000E-02 DEVIATES TOO MUCH FROM THE AV

9. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 0 / AT RESONANCE ENERGY 1.30026E+05 EV. THE GAMMA WIDTH 7.00000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 1.66203E+00 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 0
AT RESONANCE ENERGY 1.30026E+05 EV. THE GAMMA WIDTH 7.00000E-02 DEVIATES TOO MUCH FROM THE AV

10. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 0 / AT RESONANCE ENERGY 1.47262E+05 EV. THE GAMMA WIDTH 4.45400E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.66203E+00 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 0
AT RESONANCE ENERGY 1.47262E+05 EV. THE GAMMA WIDTH 4.45400E-01 DEVIATES TOO MUCH FROM THE AV

11. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 0 / AT RESONANCE ENERGY 1.97989E+05 EV. THE GAMMA WIDTH 4.53400E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.66203E+00 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 0
AT RESONANCE ENERGY 1.97989E+05 EV. THE GAMMA WIDTH 4.53400E-01 DEVIATES TOO MUCH FROM THE AV

12. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 0 / AT RESONANCE ENERGY 2.55356E+05 EV. THE GAMMA WIDTH 8.74000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 1.66203E+00 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 0
AT RESONANCE ENERGY 2.55356E+05 EV. THE GAMMA WIDTH 8.74000E-02 DEVIATES TOO MUCH FROM THE AV

13. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 0 / AT RESONANCE

ENERGY 3.09752E+05 EV. THE GAMMA WIDTH 4.01200E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.66203E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 0

AT RESONANCE ENERGY 3.09752E+05 EV. THE GAMMA WIDTH 4.01200E-01 DEVIATES TOO MUCH FROM THE AV

14. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 0 / AT RESONANCE ENERGY 3.94493E+05 EV. THE GAMMA WIDTH 8.24290E+00 DEVIATES TOO MUCH FROM THE AVERAGE 1.66203E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 0

AT RESONANCE ENERGY 3.94493E+05 EV. THE GAMMA WIDTH 8.24290E+00 DEVIATES TOO MUCH FROM THE AV

15. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 0 / AT RESONANCE ENERGY 4.04232E+05 EV. THE GAMMA WIDTH 3.00000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.66203E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 0

AT RESONANCE ENERGY 4.04232E+05 EV. THE GAMMA WIDTH 3.00000E-01 DEVIATES TOO MUCH FROM THE AV

16. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 0 / AT RESONANCE ENERGY 4.71474E+05 EV. THE GAMMA WIDTH 5.76910E+00 DEVIATES TOO MUCH FROM THE AVERAGE 1.66203E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 0

AT RESONANCE ENERGY 4.71474E+05 EV. THE GAMMA WIDTH 5.76910E+00 DEVIATES TOO MUCH FROM THE AV

17. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 0 / AT RESONANCE ENERGY 8.45710E+05 EV. THE GAMMA WIDTH 5.58900E+00 DEVIATES TOO MUCH FROM THE AVERAGE 1.66203E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 0

AT RESONANCE ENERGY 8.45710E+05 EV. THE GAMMA WIDTH 5.58900E+00 DEVIATES TOO MUCH FROM THE AV

18. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 0 / AT RESONANCE ENERGY 8.56845E+05 EV. THE GAMMA WIDTH 5.58900E+00 DEVIATES TOO MUCH FROM THE AVERAGE 1.66203E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 0

AT RESONANCE ENERGY 8.56845E+05 EV. THE GAMMA WIDTH 5.58900E+00 DEVIATES TOO MUCH FROM THE AV

19. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 0 / STRENGTH FUNCTION IS 2.59913E-05 / STRENGTH FUNCTION 2.59913E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04 (0): URR str. ftn.

```

FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 0
STRENGTH FUNCTION IS 2.59913E-05
STRENGTH FUNCTION 2.59913E-05
... [1 more lines]

```

20. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 3.20555E+03 EV. THE GAMMA WIDTH 4.31500E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

```

FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 3.20555E+03 EV. THE GAMMA WIDTH 4.31500E-01 DEVIATES TOO MUCH FROM THE AV

```

21. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 4.01246E+03 EV. THE GAMMA WIDTH 4.47300E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

```

FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 4.01246E+03 EV. THE GAMMA WIDTH 4.47300E-01 DEVIATES TOO MUCH FROM THE AV

```

22. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 7.98602E+03 EV. THE GAMMA WIDTH 2.67500E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

```

FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 7.98602E+03 EV. THE GAMMA WIDTH 2.67500E-01 DEVIATES TOO MUCH FROM THE AV

```

23. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 8.47005E+03 EV. THE GAMMA WIDTH 2.18500E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

```

FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 8.47005E+03 EV. THE GAMMA WIDTH 2.18500E-01 DEVIATES TOO MUCH FROM THE AV

```

24. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.09310E+04 EV. THE GAMMA WIDTH 1.97400E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 1.09310E+04 EV. THE GAMMA WIDTH 1.97400E-01 DEVIATES TOO MUCH FROM THE AV
25. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.12222E+04 EV. THE GAMMA WIDTH 7.85000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 1.12222E+04 EV. THE GAMMA WIDTH 7.85000E-02 DEVIATES TOO MUCH FROM THE AV
26. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.50281E+04 EV. THE GAMMA WIDTH 3.96000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 1.50281E+04 EV. THE GAMMA WIDTH 3.96000E-01 DEVIATES TOO MUCH FROM THE AV
27. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.54191E+04 EV. THE GAMMA WIDTH 1.25600E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 1.54191E+04 EV. THE GAMMA WIDTH 1.25600E-01 DEVIATES TOO MUCH FROM THE AV
28. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.56084E+04 EV. THE GAMMA WIDTH 4.92700E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 1.56084E+04 EV. THE GAMMA WIDTH 4.92700E-01 DEVIATES TOO MUCH FROM THE AV
29. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.79753E+04 EV. THE GAMMA WIDTH 2.39200E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 1.79753E+04 EV. THE GAMMA WIDTH 2.39200E-01 DEVIATES TOO MUCH FROM THE AV
30. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE

ENERGY 1.86780E+04 EV. THE GAMMA WIDTH 1.06500E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 1.86780E+04 EV. THE GAMMA WIDTH 1.06500E-01 DEVIATES TOO MUCH FROM THE AV

31. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.99097E+04 EV. THE GAMMA WIDTH 4.88700E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 1.99097E+04 EV. THE GAMMA WIDTH 4.88700E-01 DEVIATES TOO MUCH FROM THE AV

32. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 2.03172E+04 EV. THE GAMMA WIDTH 4.36300E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 2.03172E+04 EV. THE GAMMA WIDTH 4.36300E-01 DEVIATES TOO MUCH FROM THE AV

33. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 2.51183E+04 EV. THE GAMMA WIDTH 4.60000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 2.51183E+04 EV. THE GAMMA WIDTH 4.60000E-01 DEVIATES TOO MUCH FROM THE AV

34. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 2.70182E+04 EV. THE GAMMA WIDTH 1.87700E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 2.70182E+04 EV. THE GAMMA WIDTH 1.87700E-01 DEVIATES TOO MUCH FROM THE AV

35. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 2.71211E+04 EV. THE GAMMA WIDTH 2.80200E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 2.71211E+04 EV. THE GAMMA WIDTH 2.80200E-01 DEVIATES TOO MUCH FROM THE AV

36. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 2.83480E+04 EV. THE GAMMA WIDTH 8.26000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 2.83480E+04 EV. THE GAMMA WIDTH 8.26000E-02 DEVIATES TOO MUCH FROM THE AV

37. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 3.38560E+04 EV. THE GAMMA WIDTH 2.10800E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 3.38560E+04 EV. THE GAMMA WIDTH 2.10800E-01 DEVIATES TOO MUCH FROM THE AV

38. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 3.55251E+04 EV. THE GAMMA WIDTH 2.16500E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 3.55251E+04 EV. THE GAMMA WIDTH 2.16500E-01 DEVIATES TOO MUCH FROM THE AV

39. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 3.86468E+04 EV. THE GAMMA WIDTH 3.31400E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 3.86468E+04 EV. THE GAMMA WIDTH 3.31400E-01 DEVIATES TOO MUCH FROM THE AV

40. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 3.94624E+04 EV. THE GAMMA WIDTH 5.22000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 3.94624E+04 EV. THE GAMMA WIDTH 5.22000E-02 DEVIATES TOO MUCH FROM THE AV

41. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 4.23310E+04 EV. THE GAMMA WIDTH 3.78600E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 4.23310E+04 EV. THE GAMMA WIDTH 3.78600E-01 DEVIATES TOO MUCH FROM THE AV
42. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 4.24172E+04 EV. THE GAMMA WIDTH 4.77800E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 4.24172E+04 EV. THE GAMMA WIDTH 4.77800E-01 DEVIATES TOO MUCH FROM THE AV
43. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 4.29443E+04 EV. THE GAMMA WIDTH 4.40100E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 4.29443E+04 EV. THE GAMMA WIDTH 4.40100E-01 DEVIATES TOO MUCH FROM THE AV
44. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 4.42922E+04 EV. THE GAMMA WIDTH 1.51300E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 4.42922E+04 EV. THE GAMMA WIDTH 1.51300E-01 DEVIATES TOO MUCH FROM THE AV
45. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 4.43990E+04 EV. THE GAMMA WIDTH 3.54700E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 4.43990E+04 EV. THE GAMMA WIDTH 3.54700E-01 DEVIATES TOO MUCH FROM THE AV
46. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 4.74462E+04 EV. THE GAMMA WIDTH 3.83000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 4.74462E+04 EV. THE GAMMA WIDTH 3.83000E-01 DEVIATES TOO MUCH FROM THE AV
47. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE

ENERGY 5.01957E+04 EV. THE GAMMA WIDTH 4.94900E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 5.01957E+04 EV. THE GAMMA WIDTH 4.94900E-01 DEVIATES TOO MUCH FROM THE AV

48. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 5.13808E+04 EV. THE GAMMA WIDTH 1.54600E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 5.13808E+04 EV. THE GAMMA WIDTH 1.54600E-01 DEVIATES TOO MUCH FROM THE AV

49. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 5.39438E+04 EV. THE GAMMA WIDTH 2.35500E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 5.39438E+04 EV. THE GAMMA WIDTH 2.35500E-01 DEVIATES TOO MUCH FROM THE AV

50. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 5.56523E+04 EV. THE GAMMA WIDTH 4.99500E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 5.56523E+04 EV. THE GAMMA WIDTH 4.99500E-01 DEVIATES TOO MUCH FROM THE AV

51. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 5.79244E+04 EV. THE GAMMA WIDTH 4.69000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 5.79244E+04 EV. THE GAMMA WIDTH 4.69000E-02 DEVIATES TOO MUCH FROM THE AV

52. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 5.83031E+04 EV. THE GAMMA WIDTH 4.61000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 5.83031E+04 EV. THE GAMMA WIDTH 4.61000E-01 DEVIATES TOO MUCH FROM THE AV

53. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 5.91132E+04 EV. THE GAMMA WIDTH 4.29800E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 5.91132E+04 EV. THE GAMMA WIDTH 4.29800E-01 DEVIATES TOO MUCH FROM THE AV

54. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 6.24550E+04 EV. THE GAMMA WIDTH 2.53500E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 6.24550E+04 EV. THE GAMMA WIDTH 2.53500E-01 DEVIATES TOO MUCH FROM THE AV

55. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 6.32758E+04 EV. THE GAMMA WIDTH 3.77500E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 6.32758E+04 EV. THE GAMMA WIDTH 3.77500E-01 DEVIATES TOO MUCH FROM THE AV

56. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 6.71498E+04 EV. THE GAMMA WIDTH 4.63100E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 6.71498E+04 EV. THE GAMMA WIDTH 4.63100E-01 DEVIATES TOO MUCH FROM THE AV

57. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 7.04946E+04 EV. THE GAMMA WIDTH 3.41300E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 7.04946E+04 EV. THE GAMMA WIDTH 3.41300E-01 DEVIATES TOO MUCH FROM THE AV

58. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 7.53502E+04 EV. THE GAMMA WIDTH 3.21700E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 7.53502E+04 EV. THE GAMMA WIDTH 3.21700E-01 DEVIATES TOO MUCH FROM THE AV
59. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 7.57265E+04 EV. THE GAMMA WIDTH 2.47500E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 7.57265E+04 EV. THE GAMMA WIDTH 2.47500E-01 DEVIATES TOO MUCH FROM THE AV
60. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 7.72319E+04 EV. THE GAMMA WIDTH 4.68400E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 7.72319E+04 EV. THE GAMMA WIDTH 4.68400E-01 DEVIATES TOO MUCH FROM THE AV
61. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 7.96147E+04 EV. THE GAMMA WIDTH 2.46400E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 7.96147E+04 EV. THE GAMMA WIDTH 2.46400E-01 DEVIATES TOO MUCH FROM THE AV
62. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 7.99290E+04 EV. THE GAMMA WIDTH 3.86900E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 7.99290E+04 EV. THE GAMMA WIDTH 3.86900E-01 DEVIATES TOO MUCH FROM THE AV
63. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 8.35486E+04 EV. THE GAMMA WIDTH 1.48000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 8.35486E+04 EV. THE GAMMA WIDTH 1.48000E-01 DEVIATES TOO MUCH FROM THE AV
64. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE

ENERGY 8.35927E+04 EV. THE GAMMA WIDTH 4.45300E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 8.35927E+04 EV. THE GAMMA WIDTH 4.45300E-01 DEVIATES TOO MUCH FROM THE AV

65. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 9.09190E+04 EV. THE GAMMA WIDTH 2.30000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 9.09190E+04 EV. THE GAMMA WIDTH 2.30000E-01 DEVIATES TOO MUCH FROM THE AV

66. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 9.48714E+04 EV. THE GAMMA WIDTH 3.91800E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 9.48714E+04 EV. THE GAMMA WIDTH 3.91800E-01 DEVIATES TOO MUCH FROM THE AV

67. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 9.86409E+04 EV. THE GAMMA WIDTH 2.53200E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 9.86409E+04 EV. THE GAMMA WIDTH 2.53200E-01 DEVIATES TOO MUCH FROM THE AV

68. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 9.88254E+04 EV. THE GAMMA WIDTH 2.19900E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 9.88254E+04 EV. THE GAMMA WIDTH 2.19900E-01 DEVIATES TOO MUCH FROM THE AV

69. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.00673E+05 EV. THE GAMMA WIDTH 2.61000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 1.00673E+05 EV. THE GAMMA WIDTH 2.61000E-01 DEVIATES TOO MUCH FROM THE AV

70. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.01127E+05 EV. THE GAMMA WIDTH 3.03900E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 1.01127E+05 EV. THE GAMMA WIDTH 3.03900E-01 DEVIATES TOO MUCH FROM THE AV

71. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.01319E+05 EV. THE GAMMA WIDTH 4.90800E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 1.01319E+05 EV. THE GAMMA WIDTH 4.90800E-01 DEVIATES TOO MUCH FROM THE AV

72. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.08610E+05 EV. THE GAMMA WIDTH 4.30600E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 1.08610E+05 EV. THE GAMMA WIDTH 4.30600E-01 DEVIATES TOO MUCH FROM THE AV

73. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.12674E+05 EV. THE GAMMA WIDTH 4.31400E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 1.12674E+05 EV. THE GAMMA WIDTH 4.31400E-01 DEVIATES TOO MUCH FROM THE AV

74. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.16009E+05 EV. THE GAMMA WIDTH 4.52300E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 1.16009E+05 EV. THE GAMMA WIDTH 4.52300E-01 DEVIATES TOO MUCH FROM THE AV

75. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.16690E+05 EV. THE GAMMA WIDTH 4.50100E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 1.16690E+05 EV. THE GAMMA WIDTH 4.50100E-01 DEVIATES TOO MUCH FROM THE AV
76. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.16960E+05 EV. THE GAMMA WIDTH 2.39500E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 1.16960E+05 EV. THE GAMMA WIDTH 2.39500E-01 DEVIATES TOO MUCH FROM THE AV
77. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.25950E+05 EV. THE GAMMA WIDTH 4.81700E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 1.25950E+05 EV. THE GAMMA WIDTH 4.81700E-01 DEVIATES TOO MUCH FROM THE AV
78. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.27161E+05 EV. THE GAMMA WIDTH 9.25000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 1.27161E+05 EV. THE GAMMA WIDTH 9.25000E-02 DEVIATES TOO MUCH FROM THE AV
79. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.27750E+05 EV. THE GAMMA WIDTH 2.61000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 1.27750E+05 EV. THE GAMMA WIDTH 2.61000E-01 DEVIATES TOO MUCH FROM THE AV
80. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.28494E+05 EV. THE GAMMA WIDTH 1.00000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 1.28494E+05 EV. THE GAMMA WIDTH 1.00000E-01 DEVIATES TOO MUCH FROM THE AV
81. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE

ENERGY 1.28810E+05 EV. THE GAMMA WIDTH 1.00000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 1.28810E+05 EV. THE GAMMA WIDTH 1.00000E-01 DEVIATES TOO MUCH FROM THE AV

82. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.29080E+05 EV. THE GAMMA WIDTH 1.00000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 1.29080E+05 EV. THE GAMMA WIDTH 1.00000E-01 DEVIATES TOO MUCH FROM THE AV

83. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.30554E+05 EV. THE GAMMA WIDTH 7.00000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 1.30554E+05 EV. THE GAMMA WIDTH 7.00000E-02 DEVIATES TOO MUCH FROM THE AV

84. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.33037E+05 EV. THE GAMMA WIDTH 2.88800E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 1.33037E+05 EV. THE GAMMA WIDTH 2.88800E-01 DEVIATES TOO MUCH FROM THE AV

85. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.33786E+05 EV. THE GAMMA WIDTH 4.55000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 1.33786E+05 EV. THE GAMMA WIDTH 4.55000E-01 DEVIATES TOO MUCH FROM THE AV

86. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.34400E+05 EV. THE GAMMA WIDTH 5.00000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 1.34400E+05 EV. THE GAMMA WIDTH 5.00000E-02 DEVIATES TOO MUCH FROM THE AV

87. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.35400E+05 EV. THE GAMMA WIDTH 5.00000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 1.35400E+05 EV. THE GAMMA WIDTH 5.00000E-02 DEVIATES TOO MUCH FROM THE AV

88. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.35679E+05 EV. THE GAMMA WIDTH 3.83900E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 1.35679E+05 EV. THE GAMMA WIDTH 3.83900E-01 DEVIATES TOO MUCH FROM THE AV

89. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.40835E+05 EV. THE GAMMA WIDTH 4.22000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 1.40835E+05 EV. THE GAMMA WIDTH 4.22000E-01 DEVIATES TOO MUCH FROM THE AV

90. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.67493E+05 EV. THE GAMMA WIDTH 2.78300E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 1.67493E+05 EV. THE GAMMA WIDTH 2.78300E-01 DEVIATES TOO MUCH FROM THE AV

91. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.78828E+05 EV. THE GAMMA WIDTH 5.67000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 1.78828E+05 EV. THE GAMMA WIDTH 5.67000E-02 DEVIATES TOO MUCH FROM THE AV

92. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.80264E+05 EV. THE GAMMA WIDTH 3.10500E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 1.80264E+05 EV. THE GAMMA WIDTH 3.10500E-01 DEVIATES TOO MUCH FROM THE AV
93. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 1.82959E+05 EV. THE GAMMA WIDTH 9.33840E+00 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 1.82959E+05 EV. THE GAMMA WIDTH 9.33840E+00 DEVIATES TOO MUCH FROM THE AV
94. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 2.02499E+05 EV. THE GAMMA WIDTH 4.30100E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 2.02499E+05 EV. THE GAMMA WIDTH 4.30100E-01 DEVIATES TOO MUCH FROM THE AV
95. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 2.03796E+05 EV. THE GAMMA WIDTH 2.99400E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 2.03796E+05 EV. THE GAMMA WIDTH 2.99400E-01 DEVIATES TOO MUCH FROM THE AV
96. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 2.07571E+05 EV. THE GAMMA WIDTH 2.79000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 2.07571E+05 EV. THE GAMMA WIDTH 2.79000E-02 DEVIATES TOO MUCH FROM THE AV
97. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 2.08286E+05 EV. THE GAMMA WIDTH 4.91000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 41. L = 1
AT RESONANCE ENERGY 2.08286E+05 EV. THE GAMMA WIDTH 4.91000E-02 DEVIATES TOO MUCH FROM THE AV
98. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE

ENERGY 2.26936E+05 EV. THE GAMMA WIDTH 3.44700E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 2.26936E+05 EV. THE GAMMA WIDTH 3.44700E-01 DEVIATES TOO MUCH FROM THE AV

99. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 2.45304E+05 EV. THE GAMMA WIDTH 3.97900E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 2.45304E+05 EV. THE GAMMA WIDTH 3.97900E-01 DEVIATES TOO MUCH FROM THE AV

100. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 2.45988E+05 EV. THE GAMMA WIDTH 2.85700E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 2.45988E+05 EV. THE GAMMA WIDTH 2.85700E-01 DEVIATES TOO MUCH FROM THE AV

101. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 2.93678E+05 EV. THE GAMMA WIDTH 2.51300E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 2.93678E+05 EV. THE GAMMA WIDTH 2.51300E-01 DEVIATES TOO MUCH FROM THE AV

102. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 3.43112E+05 EV. THE GAMMA WIDTH 6.40420E+00 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 3.43112E+05 EV. THE GAMMA WIDTH 6.40420E+00 DEVIATES TOO MUCH FROM THE AV

103. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 3.46248E+05 EV. THE GAMMA WIDTH 4.34200E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 3.46248E+05 EV. THE GAMMA WIDTH 4.34200E-01 DEVIATES TOO MUCH FROM THE AV

104. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 3.89638E+05 EV. THE GAMMA WIDTH 2.67100E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 3.89638E+05 EV. THE GAMMA WIDTH 2.67100E-01 DEVIATES TOO MUCH FROM THE AV

105. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 41. L = 1 / AT RESONANCE ENERGY 4.59063E+05 EV. THE GAMMA WIDTH 6.25780E+00 DEVIATES TOO MUCH FROM THE AVERAGE 1.52145E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 41. L = 1

AT RESONANCE ENERGY 4.59063E+05 EV. THE GAMMA WIDTH 6.25780E+00 DEVIATES TOO MUCH FROM THE AV

- recent Warnings:

1. Fission widths given for non-fissile nucleus, but are zero
0: Fission?

Calculate Cross Sections from Resonance Parameters (RECENT 2015-1)

```
=====
Retrieval Criteria-----          MAT
File 2 Minimum Cross Section- 1.0000E-10 (Standard Option)
Reactions with No Background-      Output (Resonance Contribution)
... [482 more lines]
```

- fudge-4.0 Warnings:

1. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.23%

2. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 0 (n + K41): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

3. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 1 ((z,n)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

4. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 2 (n[multiplicity:'2'] + K40 + gamma): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

5. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 3 ($K42 + \gamma$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

- fudge-4.0 Errors:

1. Calculated and tabulated Q values disagree.
reaction label 4: $n[\text{multiplicity: '2'}] + K40 + \gamma$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9948632.187866211 eV vs -1.00959e7 eV!

2. Calculated and tabulated Q values disagree.
reaction label 5: $n + H1 + Ar40 + \gamma$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7661594.320869446 eV vs -7808310. eV!

3. Energy range of data set does not match cross section range
reaction label 5: $n + H1 + Ar40 + \gamma$ / Product: γ / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (8000600.0 -> 20000000.0) vs (8000590.0 -> 20000000.0)

4. Energy range of data set does not match cross section range
reaction label 5: $n + H1 + Ar40 + \gamma$ / Product: γ / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (8000600.0 -> 20000000.0) vs (8000590.0 -> 20000000.0)

5. Calculated and tabulated Q values disagree.
reaction label 6: $K42 + \gamma$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 7680355.119544983 eV vs 7534990. eV!

6. Calculated and tabulated Q values disagree.
reaction label 7: $n + He4 + Cl37 + \gamma$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6075903.220695496 eV vs -6221730. eV!

7. Calculated and tabulated Q values disagree.
reaction label 8: $H1 + (Ar41_s \rightarrow Ar41 + \gamma)$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -1562704.814414978 eV vs -1709730. eV!

8. Calculated and tabulated Q values disagree.
reaction label 9: $He4 + (Cl38_s \rightarrow Cl38 + \gamma)$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 31979.38571929932 eV vs -111550. eV!

- njoy2012 Warnings:

1. Message comes from several resonance types that do not support the calculation of angular distributions. Some of them can be used if Want_SAMRL_RM or Want_SAMRML_BW are true.
reconr...reconstruct pointwise cross sections in pendf format (0): RECONR/calculation of angular distribution not installed (0)

```

---message from rdf2bw---calculation of angular distribution not installed.
      samm max legendre order:  0

```
2. Evaluation has no unresolved resonance parameters given
unresr...calculation of unresolved resonance cross sections (0): No URR

```

---message from unresr---mat 1931 has no unresolved parameters
      copy as is to nout

```
3. Evaluation has no unresolved resonance parameters given
purrr...probabalistic unresolved calculation (0): No URR

```

---message from purrr---mat 1931 has no unresolved parameters
      copy as is to nout

```
4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (0): GROUPE/conver (0)

```

---message from conver---cannot do complete particle production for mt= 16
      only mf4/mf5 provided

```
5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (1): GROUPE/conver (0)

```

---message from conver---cannot do complete particle production for mt= 22
      only mf4/mf5 provided

```
6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (2): GROUPE/conver (0)

```

---message from conver---cannot do complete particle production for mt= 28
      only mf4/mf5 provided

```
7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (3): GROUPE/conver (0)

```

      ---message from conver---cannot do complete particle production for mt= 91
                                only mf4/mf5 provided

8. Only partial urr covariance data was given.
   errorr...produce cross section covariances (0):  ERRORR/resprx (5)

      ---message from resprx---mf2 nls=2, but mf32 nls=0
                                continue with partial urr covariance data

9. No scattering radius uncertainty given.
   errorr...produce cross section covariances (1):  ERRORR/rpxlc12 (0)

      ---message from rpxlc12---no scattering radius uncertainty

10. Generic warning message
    errorr...produce cross section covariances (2):  Warning

      ---message from rpxlc12---resonance parameter loop done                138.6s

11. Generic warning message
    errorr...produce cross section covariances (3):  Warning

      ---message from rpxlc12---sensitivity calculation continues            589.0s

12. Generic warning message
    errorr...produce cross section covariances (4):  Warning

      ---message from rpxlc12---sensitivity calculation completed            1284.0s

```